

*California Department of Transportation
Division of Maintenance*

Structure Maintenance and Investigations

B_{RIDGE}

I_{NSPECTION}

R_{ECORDS}

I_{NFORMATION}

S_{YSTEM}

The requested documents have been generated by BIRIS.

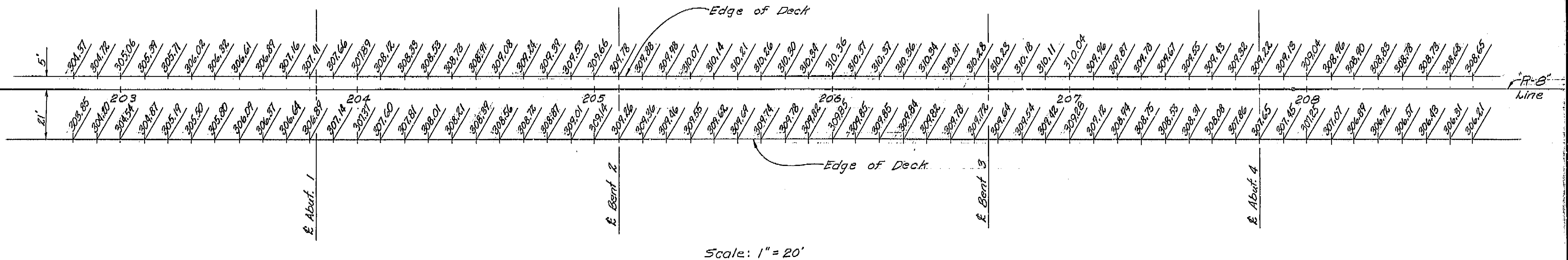
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Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

APPROXIMATE QUANTITIES	
TEMPORARY RAILING (TYPE K)	460 LF
RECONSTRUCT METAL RAILING	97 LF
16" CAST-IN-DRILLED-HOLE CONCRETE PILING	1,785 LF
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM
RIPPED TEXTURE (REINFORCING BAR)	1,000 SQ FT
WATERSTOP	40 LF
STRIP WATERSTOP	48 LF
20" CAST-IN-DRILLED-HOLE CONCRETE PILING	650 LF
8" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK)	148 LF
CLASS 1 PERMEABLE MATERIAL (BRIDGE)	18 CY
SLOPE PAVING (CONCRETE)	27 CY
METAL RAILING (TYPE 9)	988 LF
8" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	142 LF
FINAL QUANTITIES	
STRUCTURE EXCAVATION (BRIDGE)	535 CY
STRUCTURE BACKFILL (BRIDGE)	390 CY
STRUCTURE CONCRETE, BRIDGE FOOTING	170 CY
STRUCTURE CONCRETE, BRIDGE	180 CY
CAST-IN-PLACE PRESTRESSED CONCRETE (GRADE 35-50)	725 CY
BAR REINFORCING STEEL (BRIDGE)	197,000 LB

DIST.	COUNTY	ROUTE	POST MILES-TOTAL PROJECT	POST NO.	TOTAL STATION
06	Fre	41	R22.5/R23.8	99	R235

R. C. Blake
 DESIGN SECTION SUPERVISOR
 REGISTERED CIVIL ENGINEER NO. 8002
 DATE APPROVED: 11/24/39, 1972



PRESTRESSING NOTES
 $P_{jack} = 5000$ kips total at jacking ends. $A_s = \frac{P_{jack}}{.75 f'_s}$
 Total number of girders = 4
 CONCRETE: $f'_c = 3500$ psi at 28 days; $f'_{ci} = 3500$ psi at time of stressing
 GENERAL: *1. Design is based on $u = 0.25$ and $k = 0.0002$. For girders on horizontal curved alignment $(k+k') = \frac{u}{k}$ where k' is a modification factor which considers the effect of such curvature on friction.
 P_{jack} specified at the jacking ends includes friction losses and provision for 25,000 psi loss in stress.
 2. Tendons to be jacked to $0.75 f'_s$ and anchored at an equivalent anchor set = 5/8".
 3. Contractor to submit elongation and jacking calculations based on $u + kI = 0.17$ or $u + (k+k')I = \frac{u}{k}$ and initial stress at $\square = 0.84$ times jacking stress.

GENERAL NOTES
 DESIGN: A.A.S.H.O. dated 1969 with revisions and as supplemented by BRIDGE PLANNING AND DESIGN MANUAL.
 LIVE LOADING: HS20-44 and alternative
 REINFORCED CONCRETE: $f_s = 24,000$ PSI, except
 = 20,000 PSI in transverse deck slabs and stirrups
 $f'_c = 1,300$ PSI, except
 = 1,200 PSI in transverse deck slabs
 $n = 10$

Note:
 Deck elevations are figured @ 10' stations normal from "R-8" line up to station 207+94.08 & radially from this station on.
 These elevations do not include cambers.

"NO AS-BUILT CORRECTIONS"
AS BUILT
 CORRECTIONS BY _____
 CONTRACT NO. _____
 DATE _____

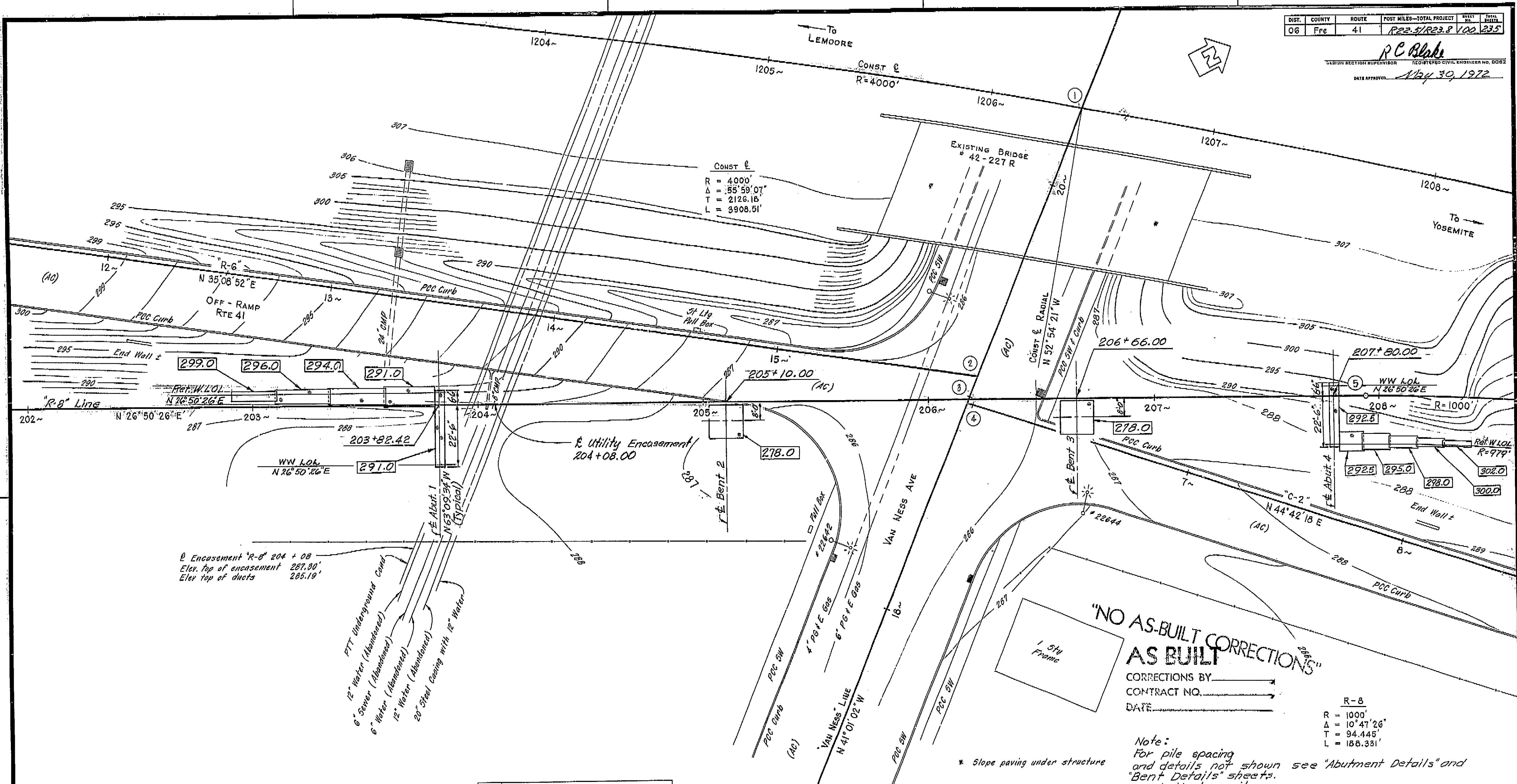
AS BUILT PLANS
 Contract No. 06-0256/4
 Date Completed 9-3-74
 Document No. 60226555

BRIDGE DEPARTMENT DESIGN SECTION 15		STATE OF CALIFORNIA TRANSPORTATION AGENCY DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
Project Engineer: <i>B. J. Hansen</i> DESIGN: By <i>W. J. Aaberg</i> 11/71 Checked: <i>E. N. Brunberg</i> 11-71 DETAILS: By <i>W. J. Aaberg</i> 11-71 Checked: <i>E. N. Brunberg</i> 11-71 QUANTITIES: By <i>E. N. Brunberg</i> 1-72 Checked: <i>A. Hansen</i> 1/72		VAN NESS AVENUE UNDERCROSSING GRID GRADES BRIDGE NO. 42287QA POST MILE 22.7 DRAWING NO. 2 OF 9 REVISION DATES: (PRELIMINARY STAGE ONLY)	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
 DATE 6/24/75 SIGNATURE *Rich Macdonald* TITLE *Maple Supervisor*

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	PROJECT NO.	SHEET NO.
06	Fre	41	R22.5/R23.8	100	235

RC Blake
 DESIGN SECTION SUPERVISOR
 REGISTERED CIVIL ENGINEER NO. 6082
 DATE APPROVED 1/24/30, 1972



BM #2
 Fd chiseled "D" top curb
 31' Rt "Van Ness" 18~
 Elev. 286.058'

BM #1
 Cross cut in top of PCC Ret Wall
 104.8' Lt "Const E" 1205~
 Elev. 307.485'

SCALE 1" = 20'
 LEVEL DATUM: MSL
 FOR ALIGNMENT TIES SEE PR-42227-22
 CONTOURS AS OF 2-70
 SITE PLAN TO SUPPLEMENT DISTRICT DATA
 SURVEY BY BOR & DJB DATE 5-68 & 2-70
 DRAWN BY EGN & DJB DATE 2-70
 TRACED BY JLL DATE 4-7-70

AS BUILT PLANS
 Contract No. 06-025614
 Date Completed 9-3-74
 Document No. 6006555

No.	LOCATION	DESCRIPTION
1	VAN NESS 20 + 36.265 POT =	CONST E 1206 + 40.499 POC
2	VAN NESS 19 + 10.00 POT =	R-6 15 + 89.33 END
3	VAN NESS 18 + 98.89 POT =	R-8 206 + 17.71 POT
4	VAN NESS 18 + 97.64 POT =	C-2 5 + 97.33 BEGIN
5	R-8 207 + 94.08 BC	

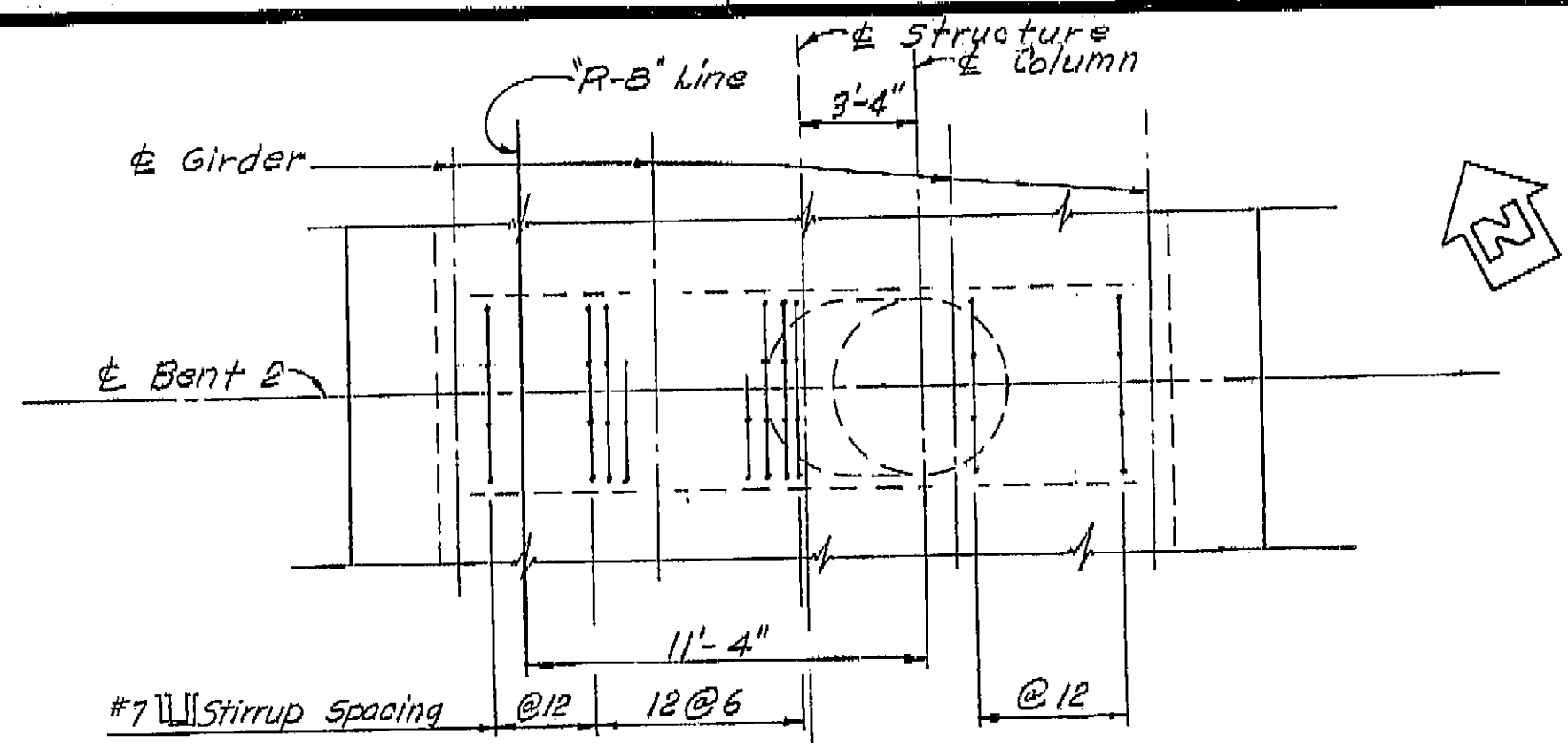
BRIDGE DEPARTMENT/ DESIGN SECTION 15		STATE OF CALIFORNIA TRANSPORTATION AGENCY DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
Project Engineer: <i>R. J. Anderson</i>		VAN NESS AVE UC	
DESIGN: By <i>Wm. J. Aaberg</i> 11-71 Checked <i>E. N. Brunberg</i> 11-71		FOUNDATION PLAN	
DETAILS: By <i>E. N. Brunberg</i> 11-71 Checked <i>E. N. Brunberg</i> 11-71		BRIDGE NO. 42-227 QR POST MILE 22.7 DRAWING NO. 3 OF 3	
QUANTITIES: By <i>E. N. Brunberg</i> 1-72 Checked <i>J. J. Anderson</i> 1-72		REVISION DATES (PRELIMINARY STAGE ONLY)	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

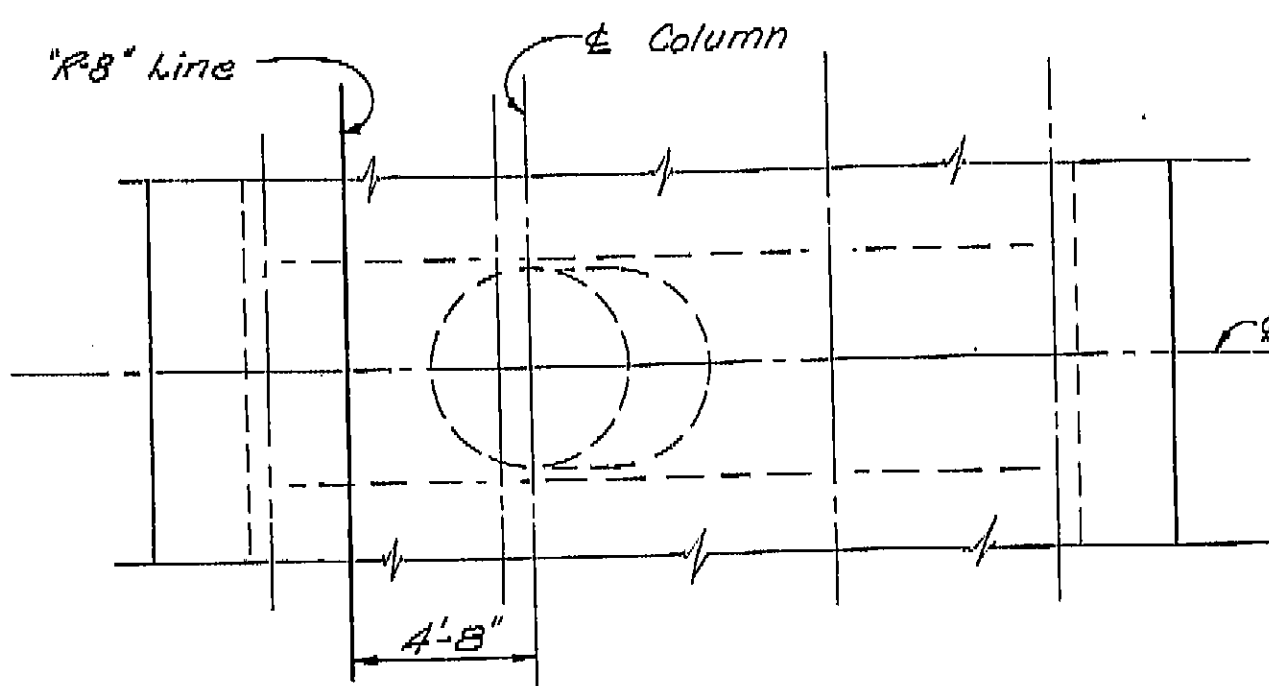
DATE 6/24/75 BY *Wm. J. Aaberg* TITLE *Supervisor*

DIST.	COUNTY	ROUTE	POST MILES-TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FPE	41	RE2.5/R23.8	102	235

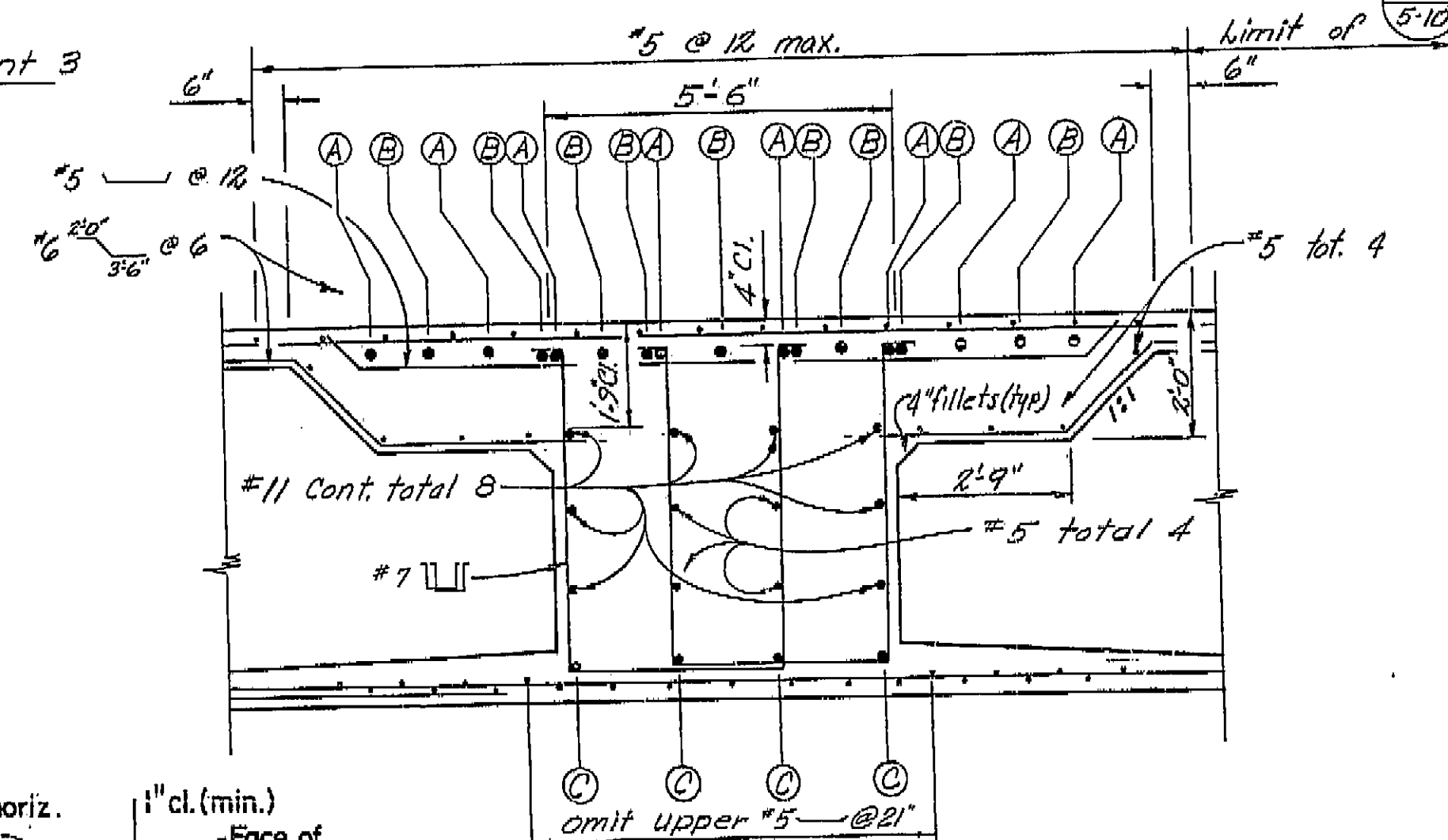
REGISTERED CIVIL ENGINEER NO. 0008
 DATE APPROVED May 30, 1978



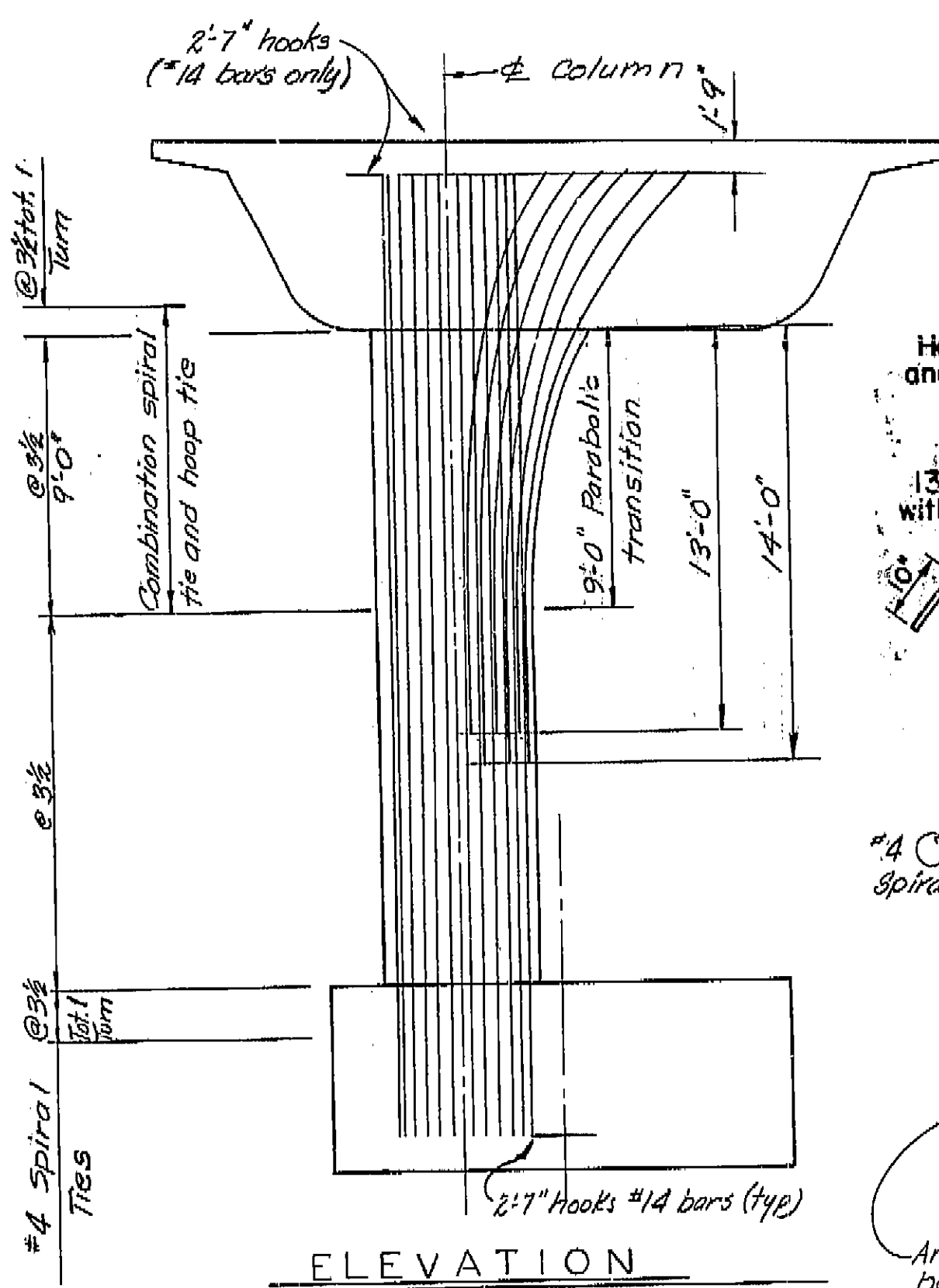
PLAN



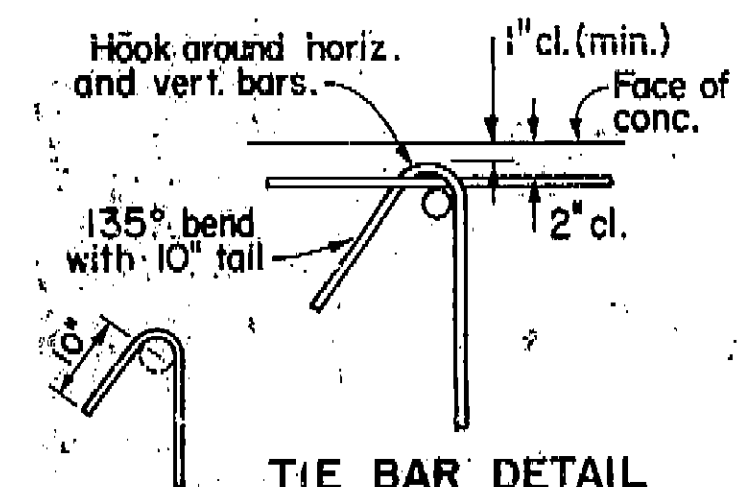
PLAN



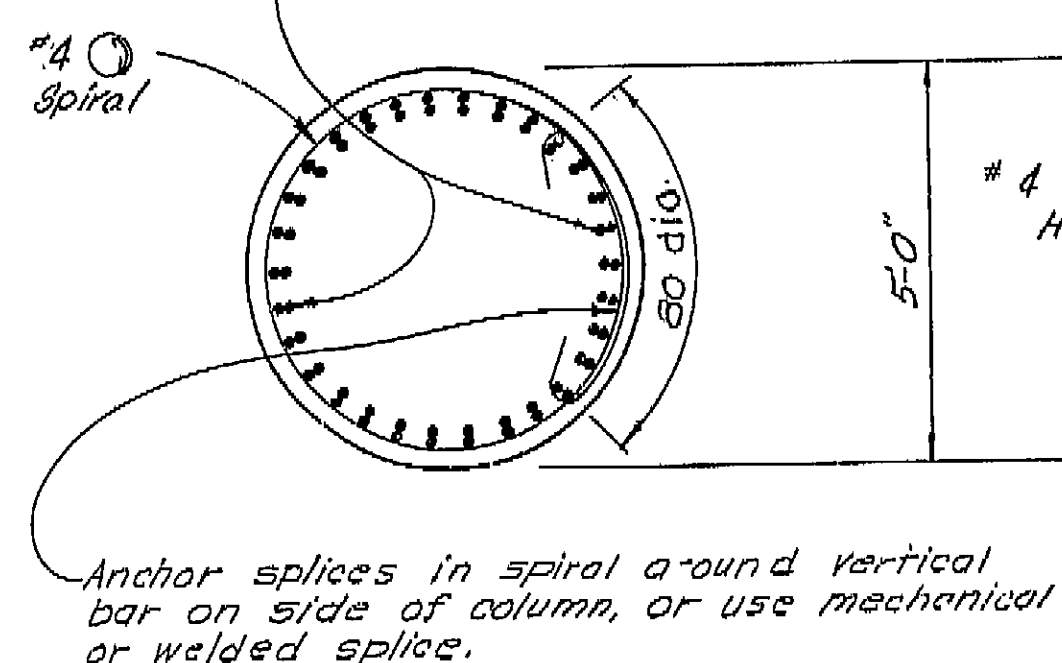
SECTION B-B



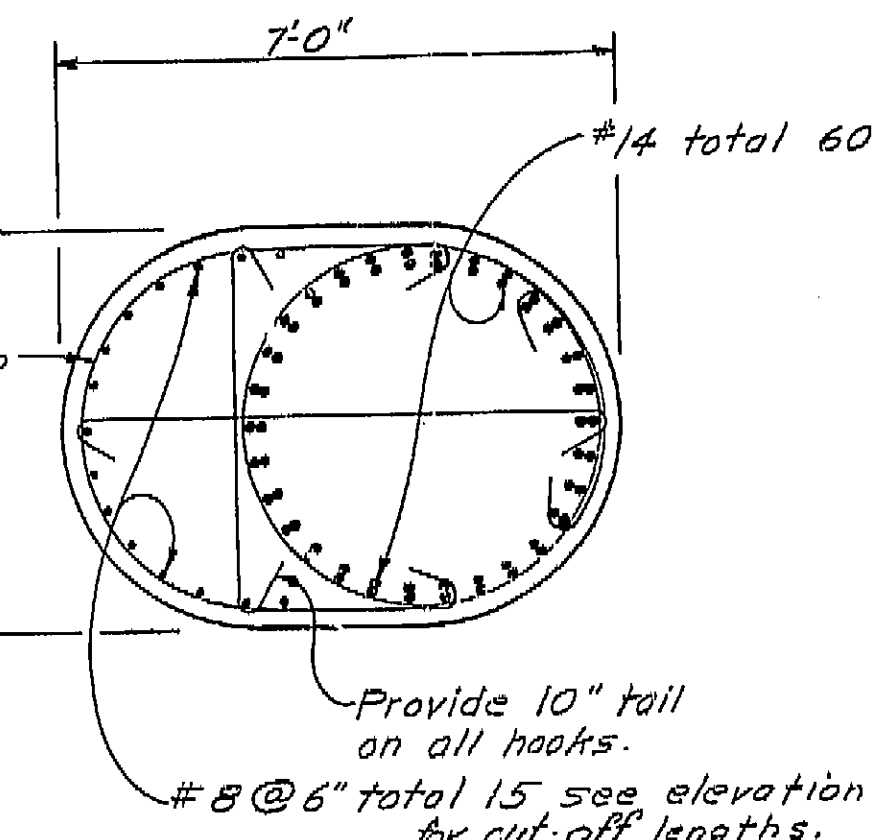
ELEVATION



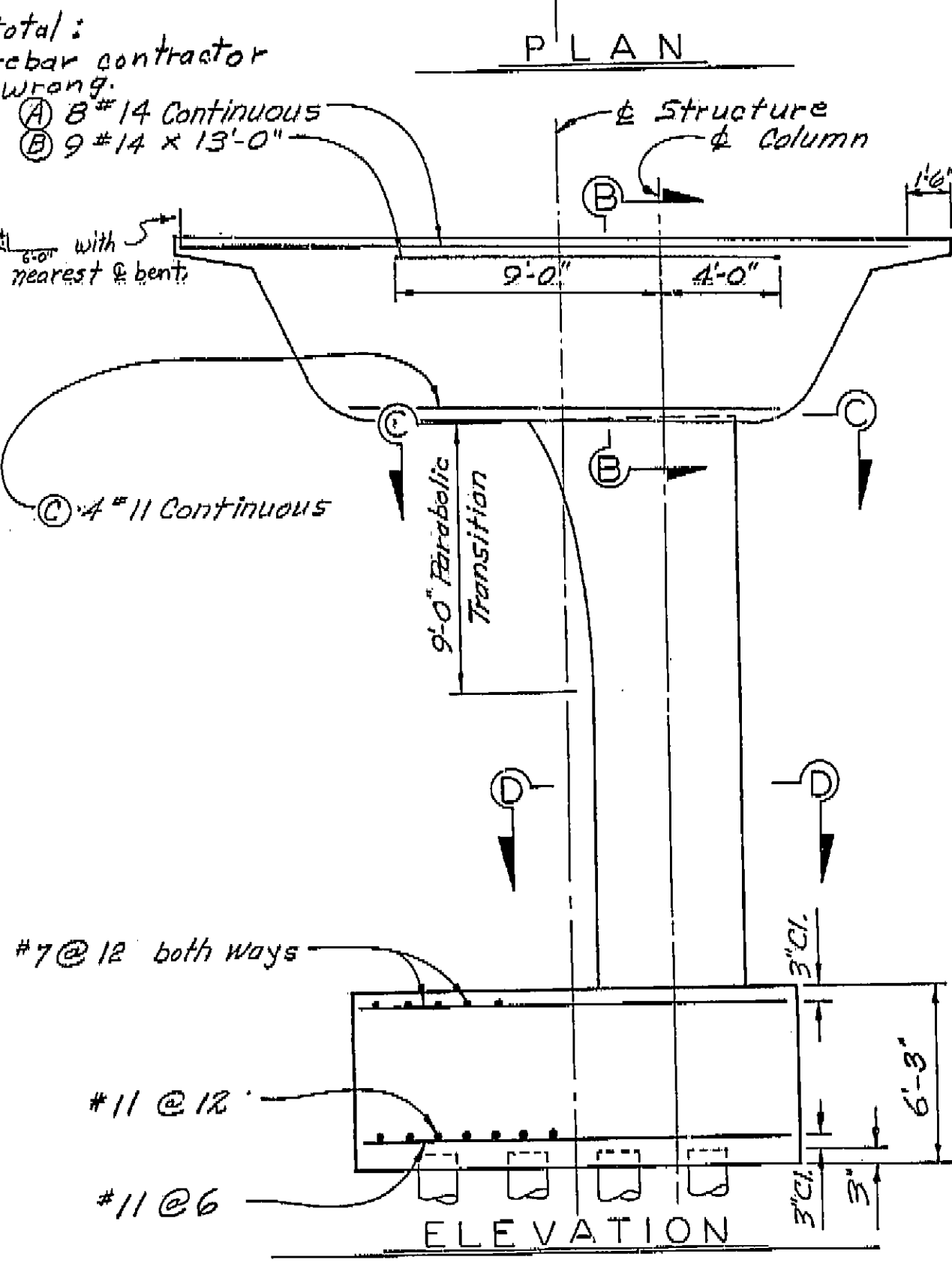
TIE BAR DETAIL



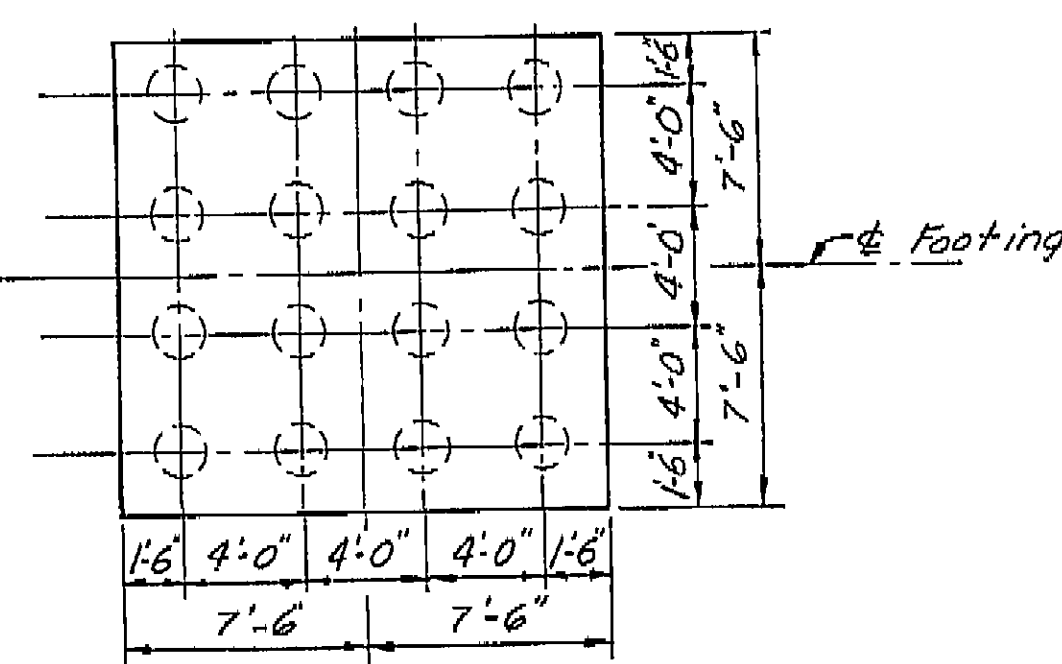
SECTION D-D



SECTION C-C



ELEVATION



TYPICAL FOOTING PLAN

No Scale

Note:
 Column Reinf. may be adjusted as necessary to clear prestressing ducts.
 Bents 2 and 3 are similar except as noted.
 Scale: 1/4" = 1'-0", Sections 1/2" = 1'-0" or as noted.

AS BUILT PLANS
 Contract No. 06-025614
 Date Completed 9-3-74
 Document No. 6006555

AS BUILT
 CORRECTIONS BY C. Pearson
 CONTRACT NO. 06-025614
 DATE 1-15-75 ARH 5-28-75

BRIDGE DEPARTMENT DESIGN SECTION 15	
Project Engineer	W. J. Aaberg
DESIGN	W. J. Aaberg
DETAILS	E. M. Brunberg
QUANTITIES	E. M. Brunberg

STATE OF CALIFORNIA TRANSPORTATION AGENCY DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
VAN NESS AVENUE UNDERCROSSING	
BENT DETAILS	
BRIDGE NO. 42-227QR	POST MILE 22.7
DRAWING NO. 5	SHEET 9

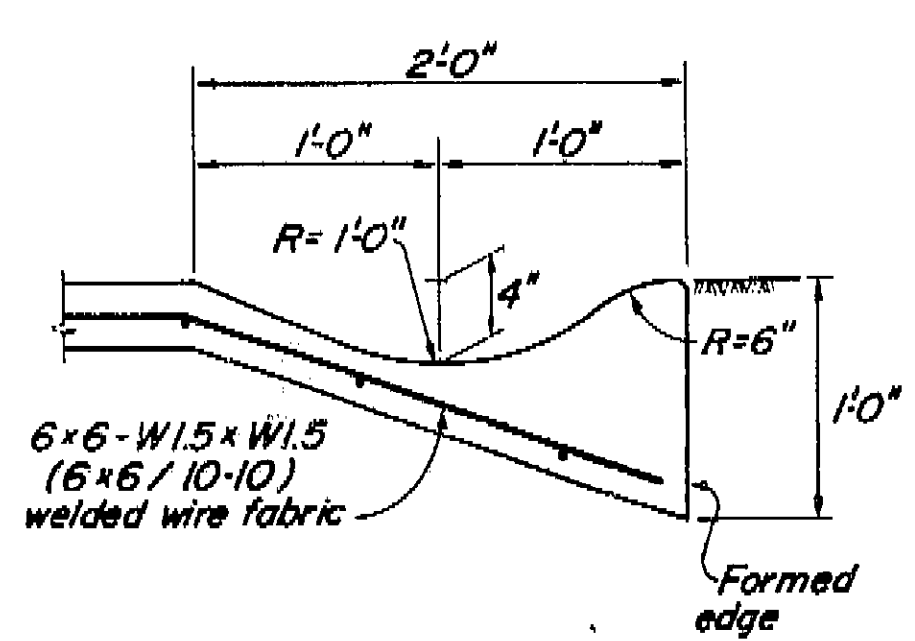
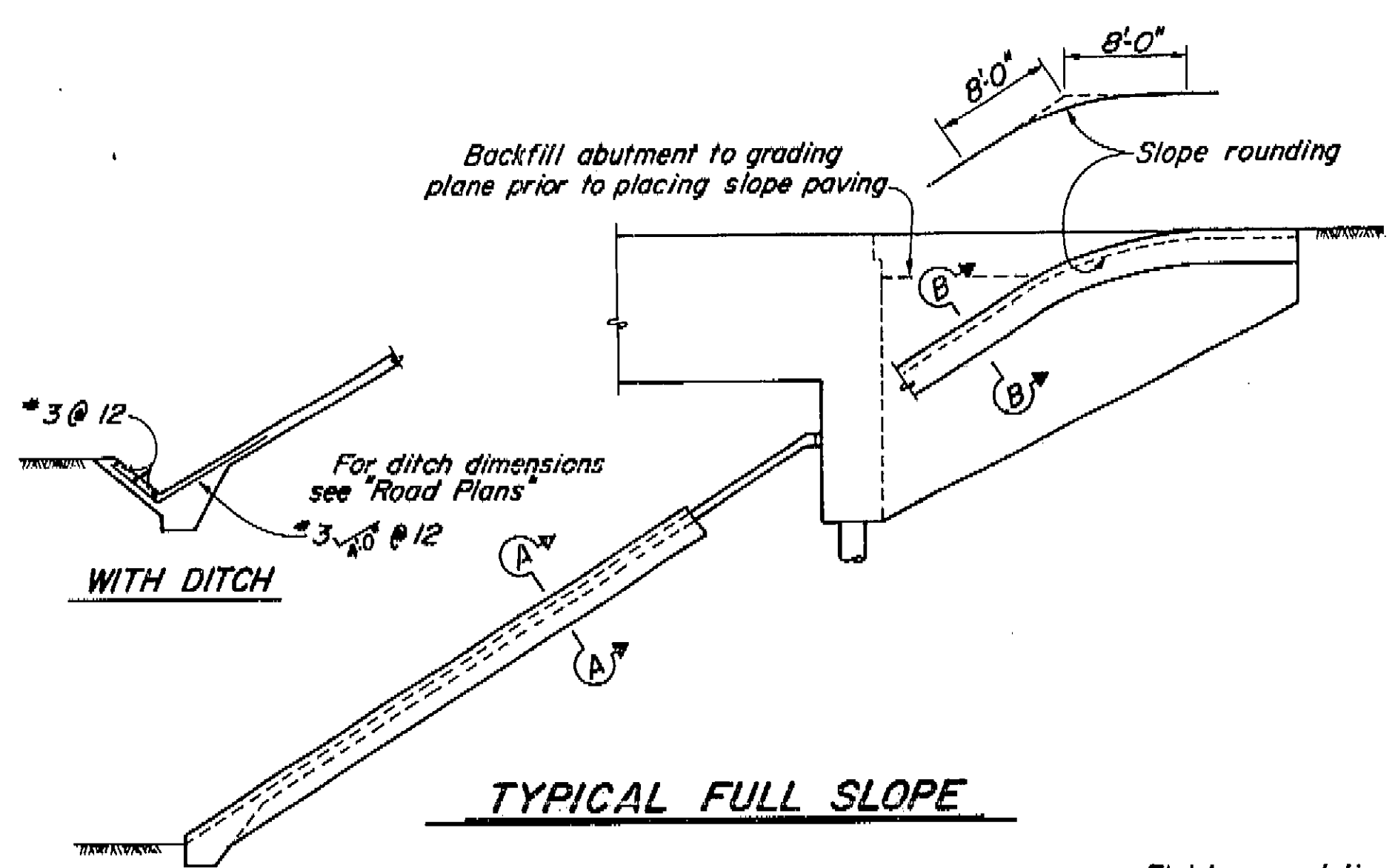
WO
CU

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
 DATE 6/24/75 SIGNATURE Dick Madson TITLE District Supervisor

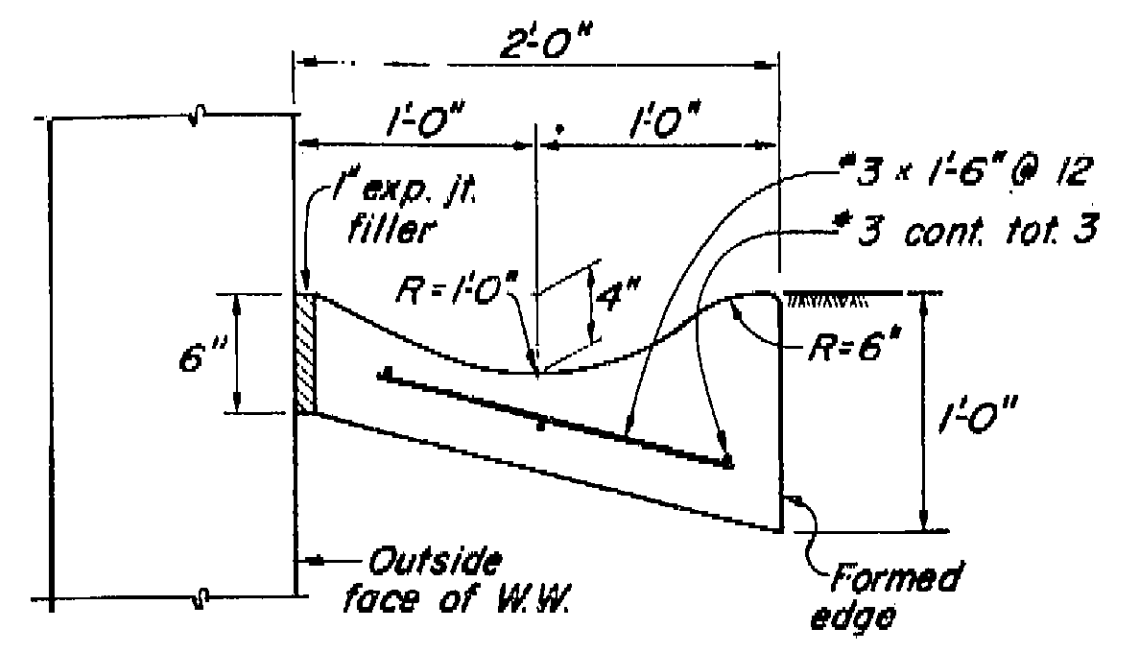
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DIST.	COUNTY	ROUTE	POST MILE-TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	41	R22.5/R23.8	104	235

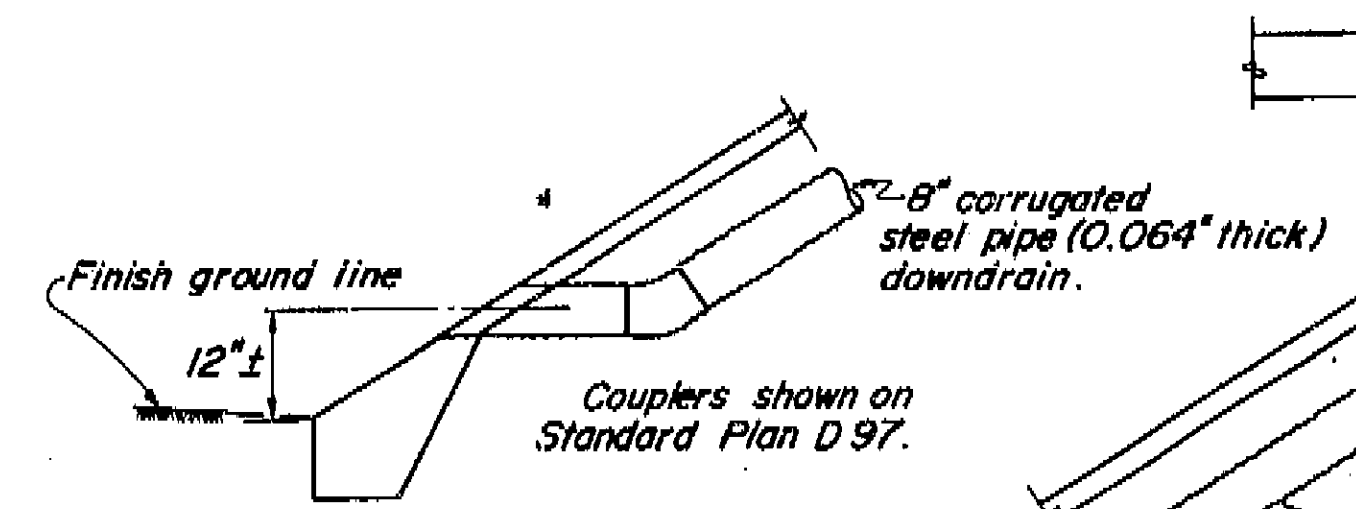
BRIDGE ENGINEER *[Signature]* REGISTERED CIVIL ENGINEER No. 5586
DATE APPROVED *May 30, 1972*



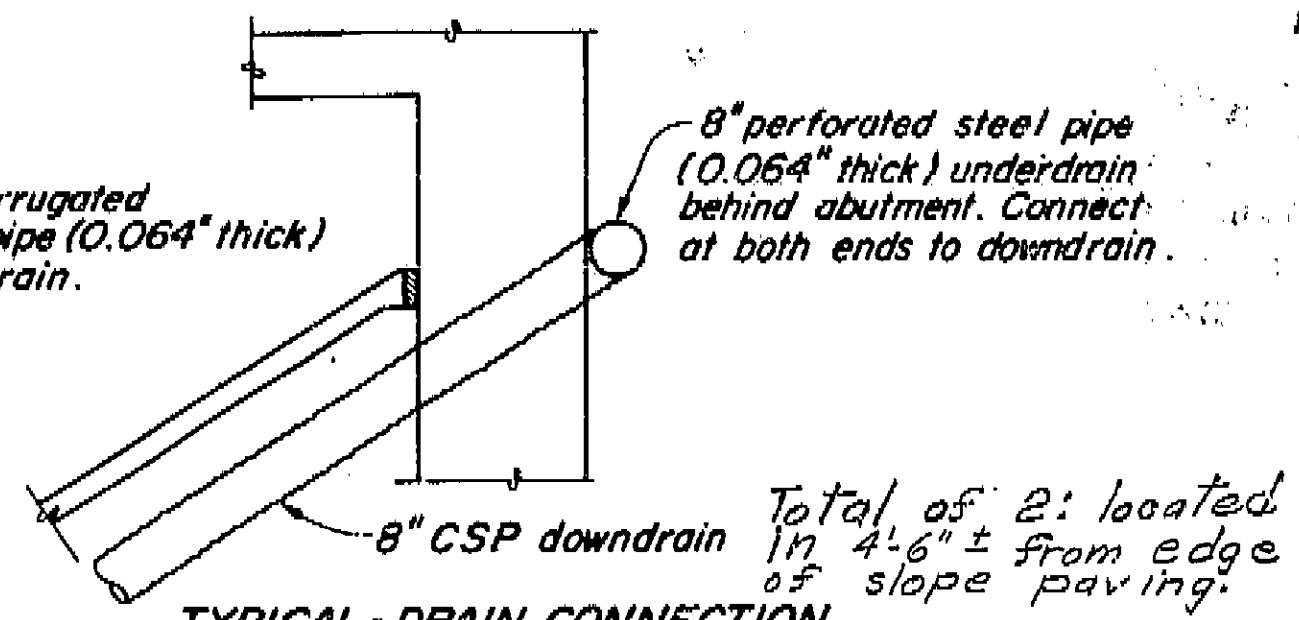
SECTION A-A



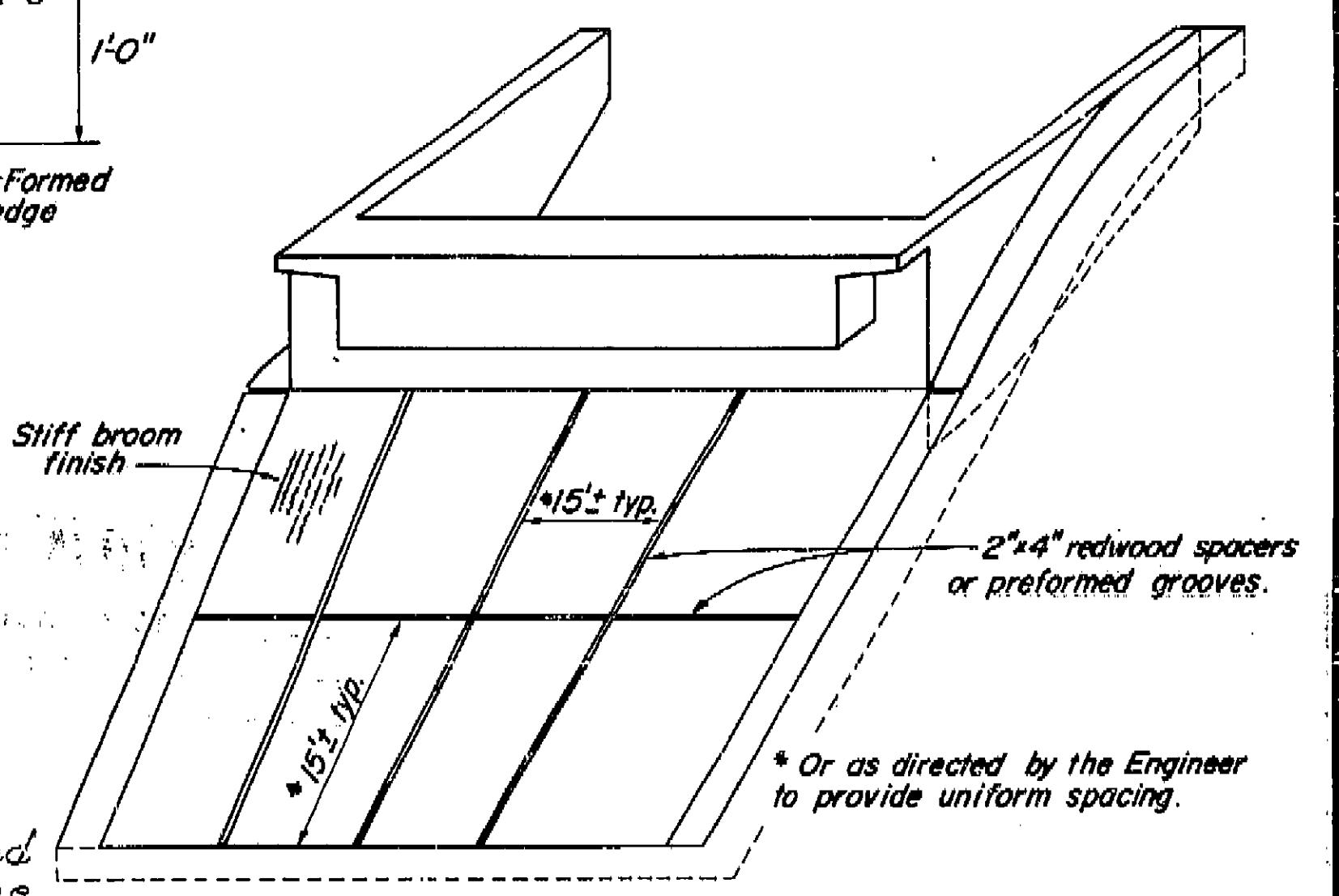
SECTION B-B



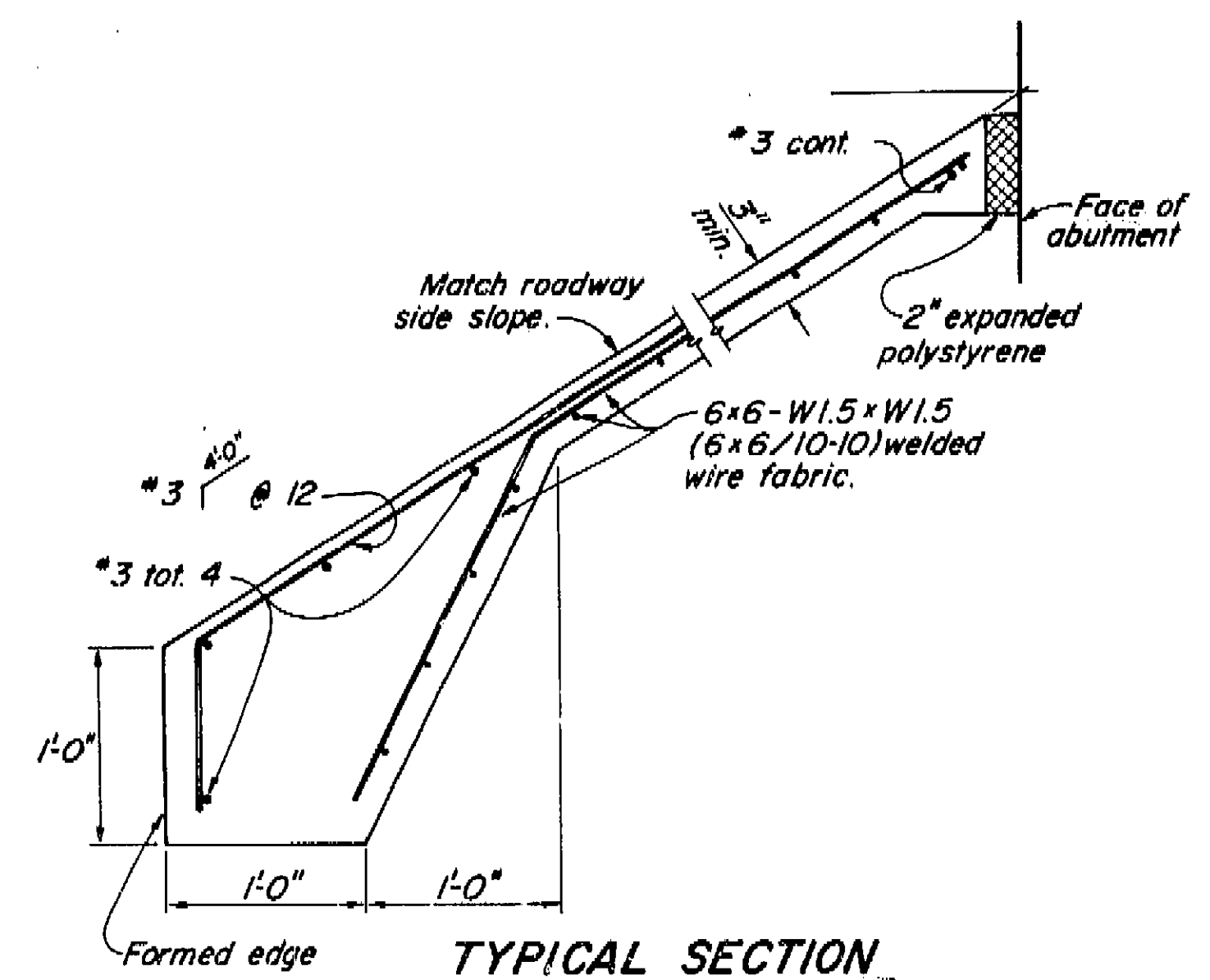
TYPICAL-NO CURB
USED



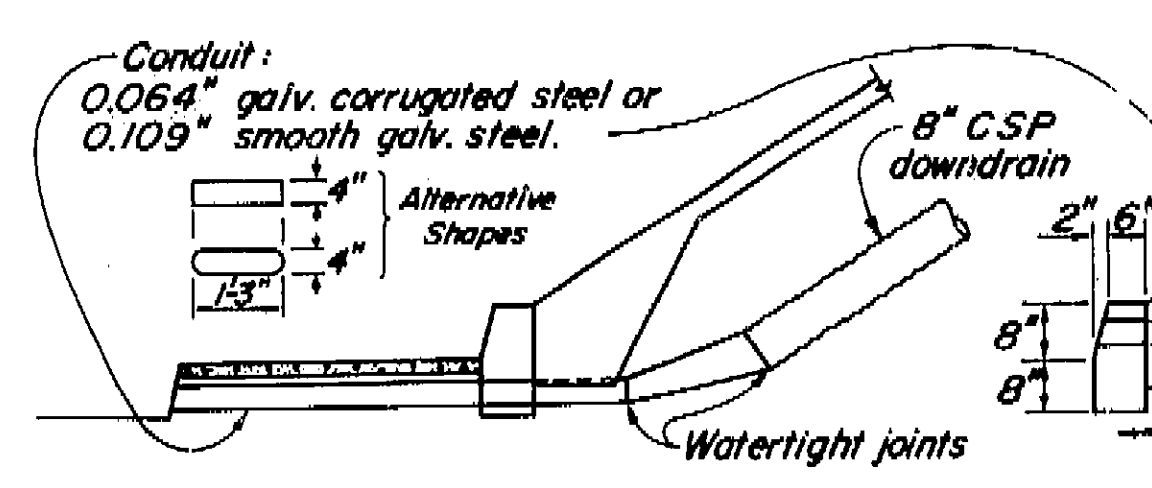
TYPICAL-DRAIN CONNECTION



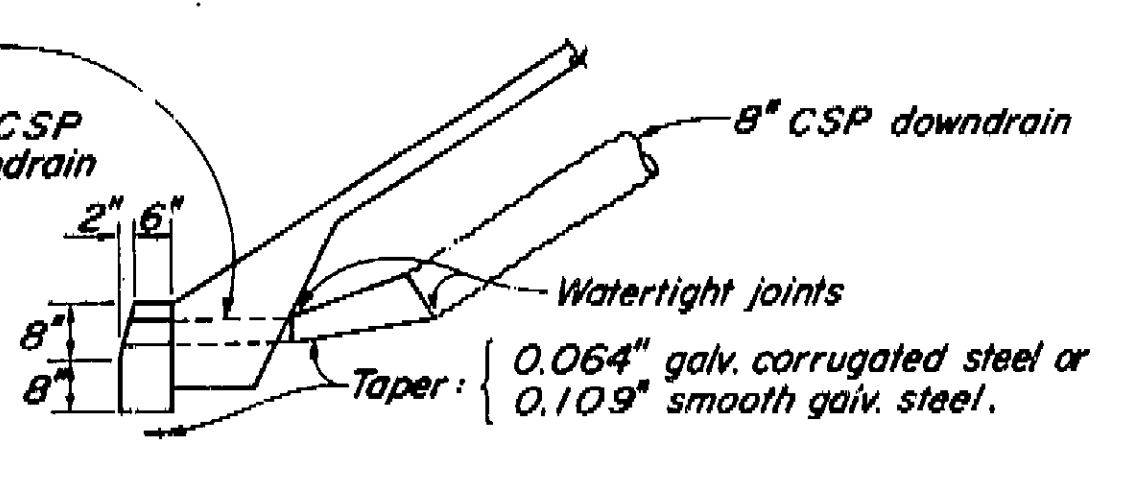
PICTORIAL VIEW OF TYPICAL INSTALLATION



TYPICAL SECTION



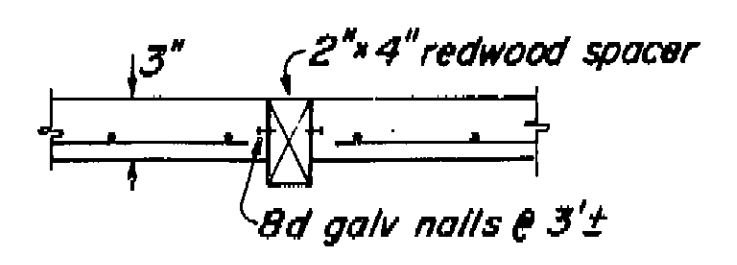
TYPICAL WITH SIDEWALK



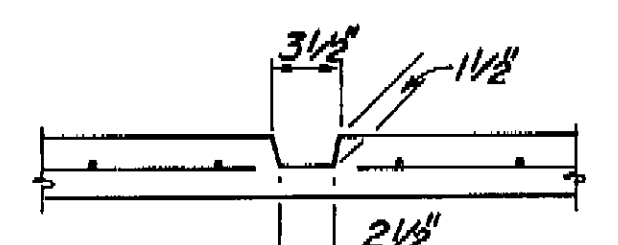
TYPICAL - WITH CURB

Note: In case of conflict between curb details shown here and those on Road Plans, the Road Plans shall govern.

DRAINAGE DETAILS



SPACER DETAIL
USED



PREFORMED GROOVE

AS BUILT

CORRECTIONS BY *A. Pearson*
CONTRACT NO. 06-025614
DATE 1-15-75 BY *14* 5-28-75

LIMITS OF SLOPE PAVING

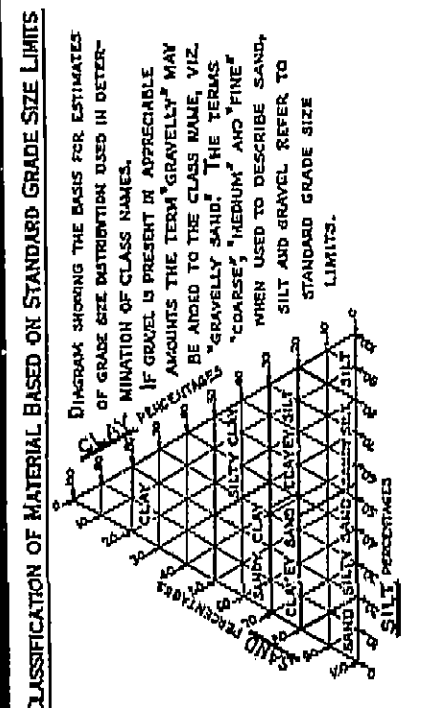
AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6006555

BRIDGE DEPARTMENT DESIGN SECTION 15		8 / 71		STATE OF CALIFORNIA BUSINESS AND TRANSPORTATION AGENCY DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS		XS-22-11	
Project Engineer <i>R. H. Hanson</i>		DESIGN <i>W. J. Hahner</i> 11/71		DETAILS <i>EN Brunberg</i> 11/71		QUANTITIES <i>EN Brunberg</i> 11/71	
DESIGN <i>W. J. Hahner</i> 11/71		DETAILS <i>EN Brunberg</i> 11/71		QUANTITIES <i>EN Brunberg</i> 11/71		REVISIONS	
BRIDGE NO. 42-227 QR		POST MILE 22.7		DRAWING NO. 7		SHEET 9	
VAN NESS AVENUE UNDERCROSSING		SLOPE PAVING DETAILS - FULL SLOPE					

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE *6/24/75* SIGNATURE *Deek Meadows* TITLE *Mr. Meadows*

FIELD STUDY
10-69
DRAWN
10-69
CHECKED
11-25-69
Approved Recommended by J. J. Sullivan, Jr.
Engineer (Geology)

BRIDGE DEPARTMENT
ENGINEERING GEOLOGY SECTION

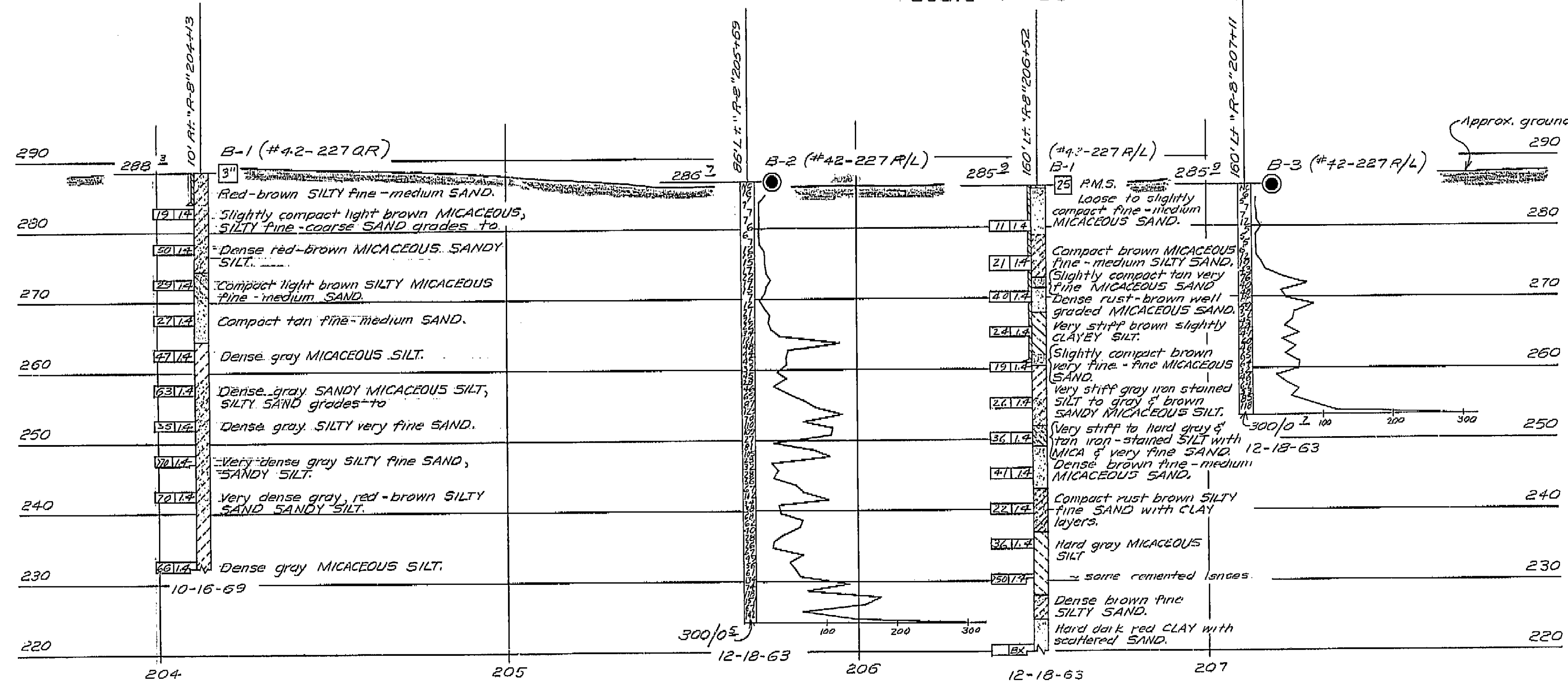
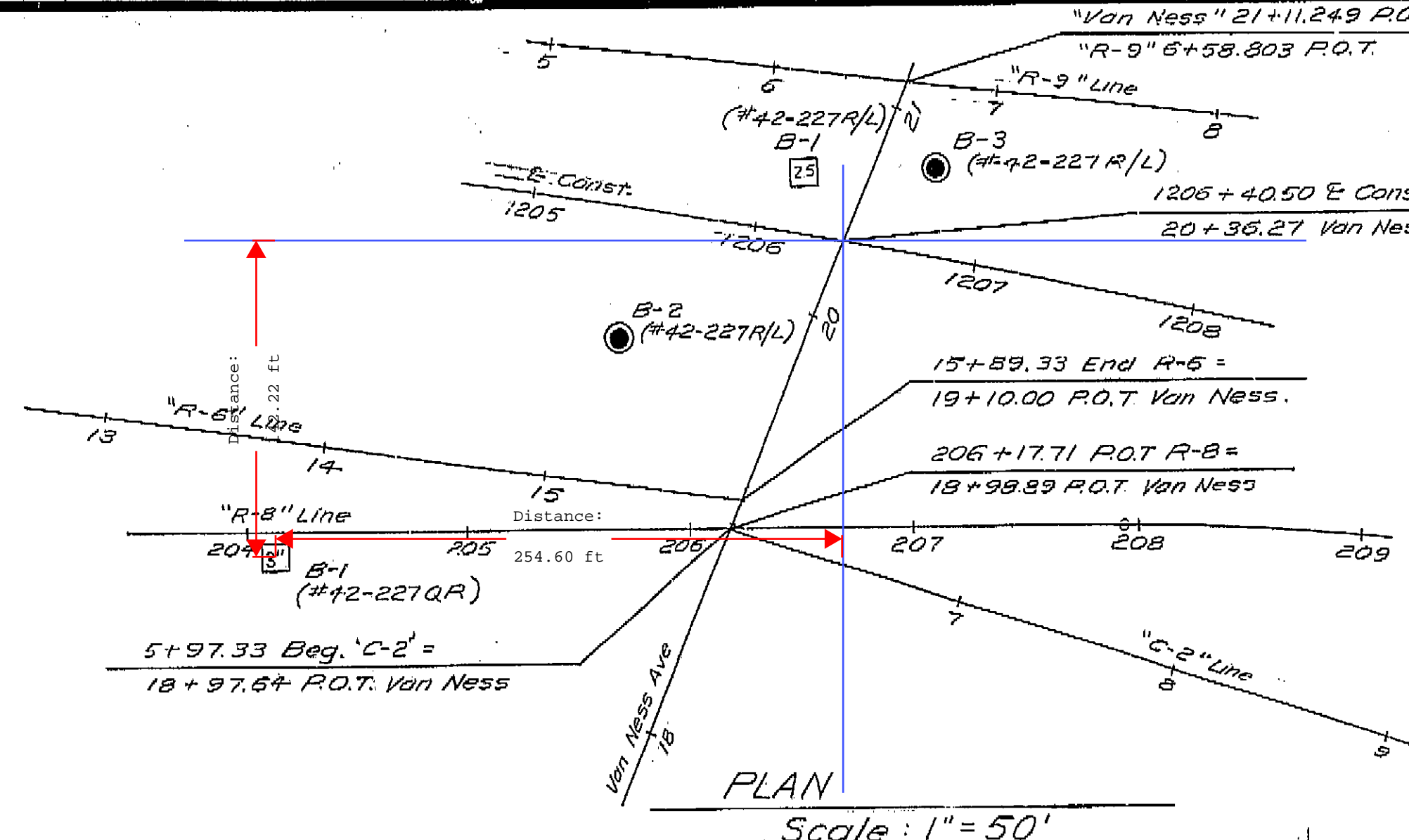


NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

- LEGEND OF EARTH MATERIALS
- SILTY CLAY or CLAYEY SILT
 - CLAY
 - SILT
 - FINE SAND
 - MEDIUM SAND
 - COARSE SAND
 - GRAVEL
 - COBBLES
 - CLAYEY SILT
 - SILT
 - FINE SAND
 - MEDIUM SAND
 - COARSE SAND
 - GRAVEL
 - COBBLES

- LEGEND OF PENETRATION BORING
- 2 1/2" CONE PENETROMETER
 - SPANDER BORING (SNO)
 - DEPT. BORING (DEPT)
 - LET BORING
 - CONE BORING
 - TEST PIT

B.M. #2
Chiseled square in curb.
31 Ft. "E Van Ness" 18+00
Elev. 296.058



AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 60006555

NO GROUND WATER ENCOUNTERED
DURING THIS INVESTIGATION BY
BRIDGE DEPT. GEOLOGY SECTION
DATE Oct 1969

PROFILE
Scale: Horiz. 1" = 20'
Vert. 1" = 10'

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VAN NESS AVENUE UNDERCROSSING

LOG OF TEST BORINGS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-227QR	22.7		9	9

REVISION DATES (PRELIMINARY STAGE ONLY)

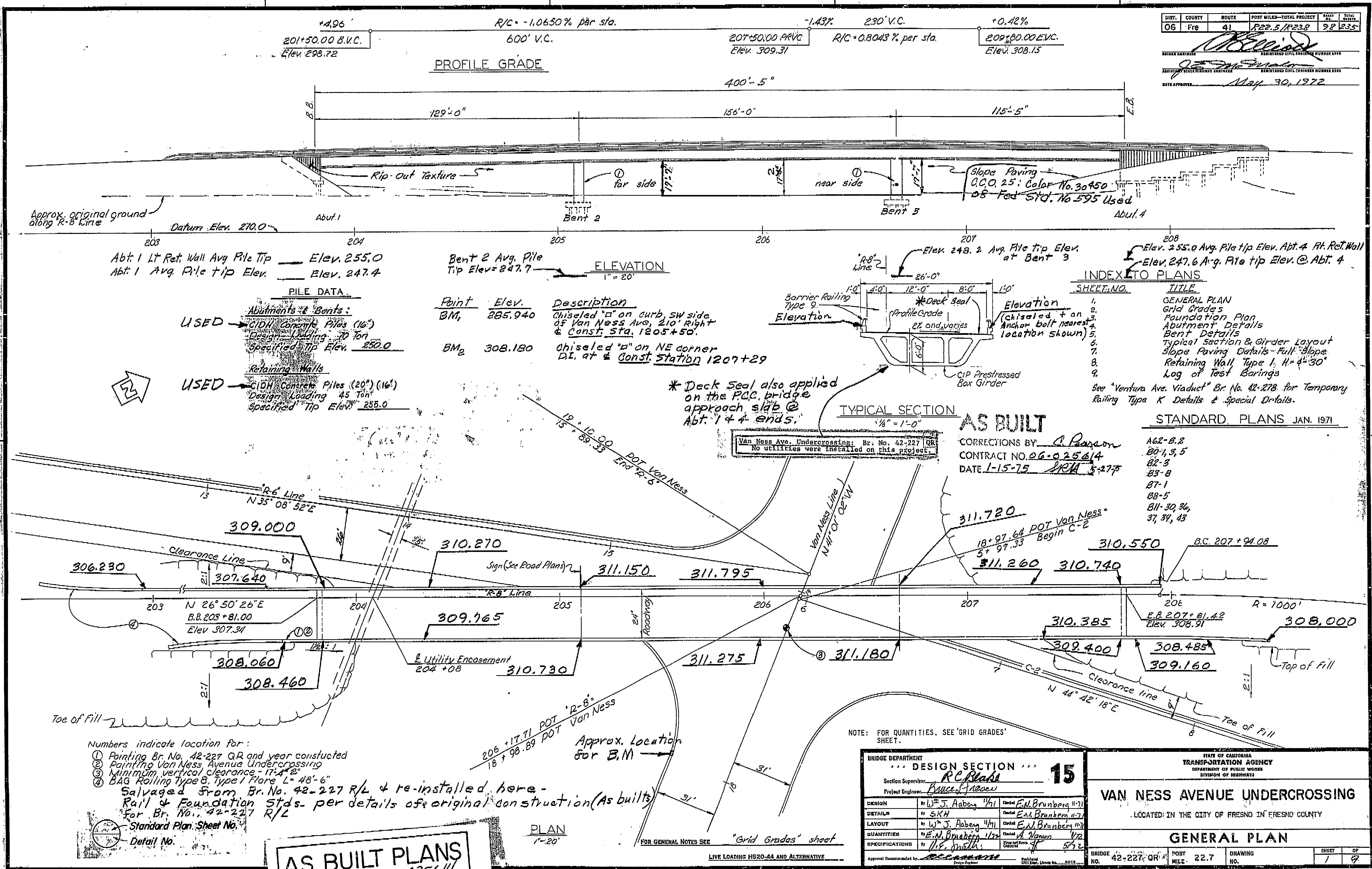
NO.	DATE	DESCRIPTION
1	10/69	Initial

WO 025611
CU 0620E

Disregard prints bearing earlier revision dates

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/24/75 BY Rich W. Lindgren



DIST.	COUNTY	ROUTE	POST MILES-TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fres	41	P22.5/P23.8	98	235

REGISTERED CIVIL ENGINEER NUMBER 5142
DATE APPROVED: 12/30/1972

INDEX TO PLANS	
SHEET NO.	TITLE
1	GENERAL PLAN
2	Grid Grades
3	Foundation Plan
4	Abutment Details
5	Bent Details
6	Typical Section & Girder Layout
7	Slope Paving Details-Full Slope
8	Retaining Wall, Type I, H=4'-30"
9	Log of Test Borings

See "Ventura Ave. Viaduct" Br. No. 42-278 for Temporary Railing Type K Details & Special Details.

STANDARD PLANS JAN. 1971

AS BUILT
CORRECTIONS BY: A. Pearson
CONTRACT NO. 06-025614
DATE 1-15-75 SKH 5-27-75

- A62-B.2
- B0-1, 3, 5
- B2-3
- B3-8
- B7-1
- B8-5
- B11-30, 36, 37, 39, 43

- Numbers indicate location for:
- ① Painting Br. No. 42-227 QR and year constructed
 - ② Painting Van Ness Avenue Undercrossing
 - ③ Minimum vertical clearance - 17'-4"
 - ④ BAG Rolling Type B, Type I Floor L=48'-6"
- Salvaged from Br. No. 42-227 R/L & re-installed here -
Rail & Foundation Stds. per details of original construction (As built)
For Br. No. 42-227 R/L
- Standard Plan Sheet No. _____
Detail No. _____

AS BUILT PLANS
Contract No. 06-025614
Date Completed 7-3-74
Document No. 60006555

BRIDGE DEPARTMENT	
DESIGN SECTION 15	
Section Supervisor	<u>R.C. Plase</u>
Project Engineer	<u>Bruce A. Macdon</u>
DESIGN	By <u>W.J. Aaberg</u> / <u>1/1</u> Checked <u>E.M. Brunberg</u> / <u>11/1</u>
DETAILS	By <u>SKH</u> / Checked <u>E.M. Brunberg</u> / <u>11/1</u>
LAYOUT	By <u>W.J. Aaberg</u> / <u>1/1</u> Checked <u>E.M. Brunberg</u> / <u>11/1</u>
QUANTITIES	By <u>E.M. Brunberg</u> / <u>1/1</u> Checked <u>A. Pearson</u> / <u>5/2</u>
SPECIFICATIONS	By <u>W.E. Smith</u> / <u>5/2</u>

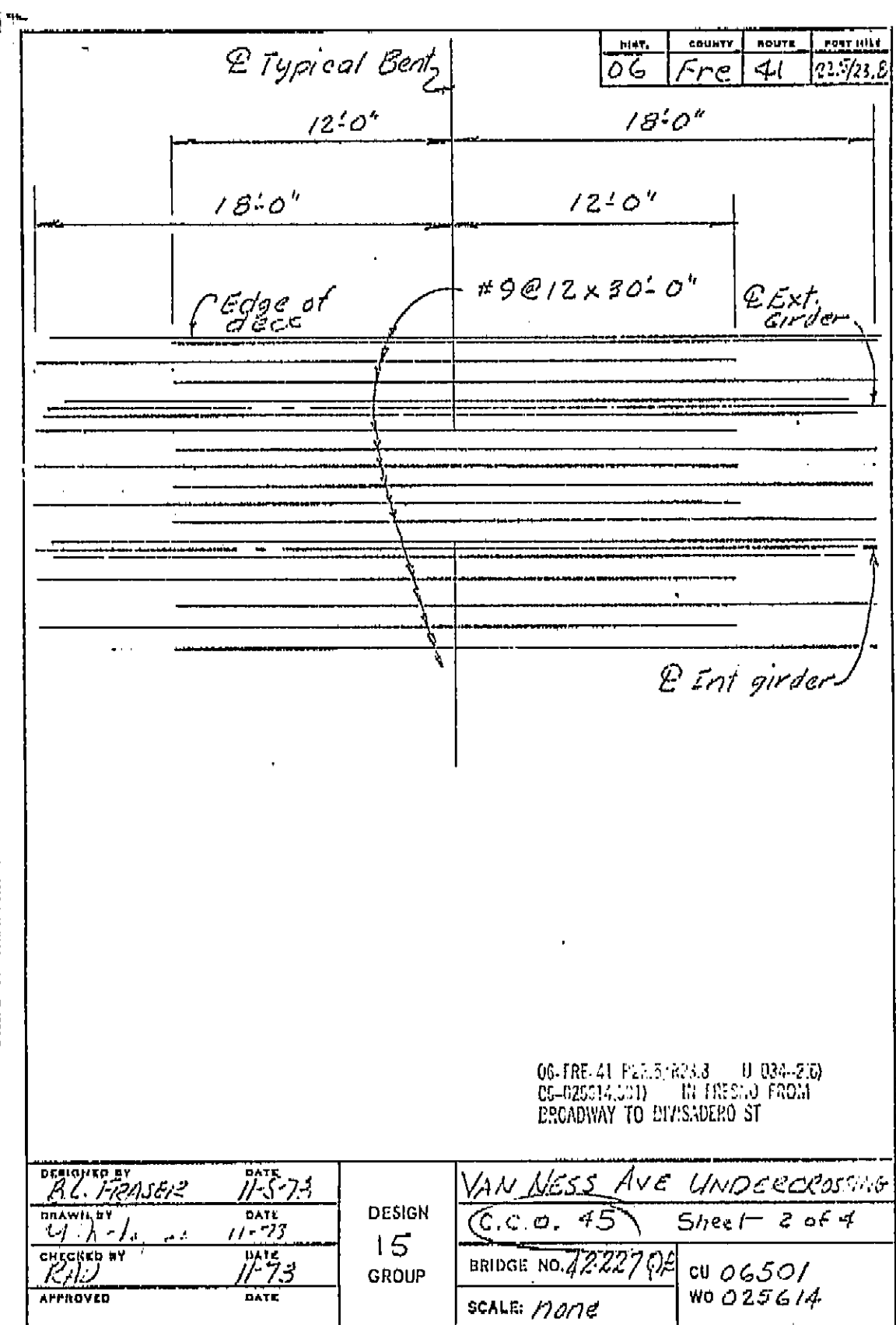
Approval Recommended by: _____
Date: _____

STATE OF CALIFORNIA TRANSPORTATION AGENCY DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
VAN NESS AVENUE UNDERCROSSING	
LOCATED IN THE CITY OF FRESNO IN FRESNO COUNTY	
GENERAL PLAN	
BRIDGE NO. 42-227 QR	POST MILE 22.7
DRAWING NO. _____	SHEET 1 OF 9
REVISION NOTES (PRELIMINARY STAGE ONLY)	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/24/75 SIGNATURE Clark Macdon TITLE Project Engineer

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 60206555



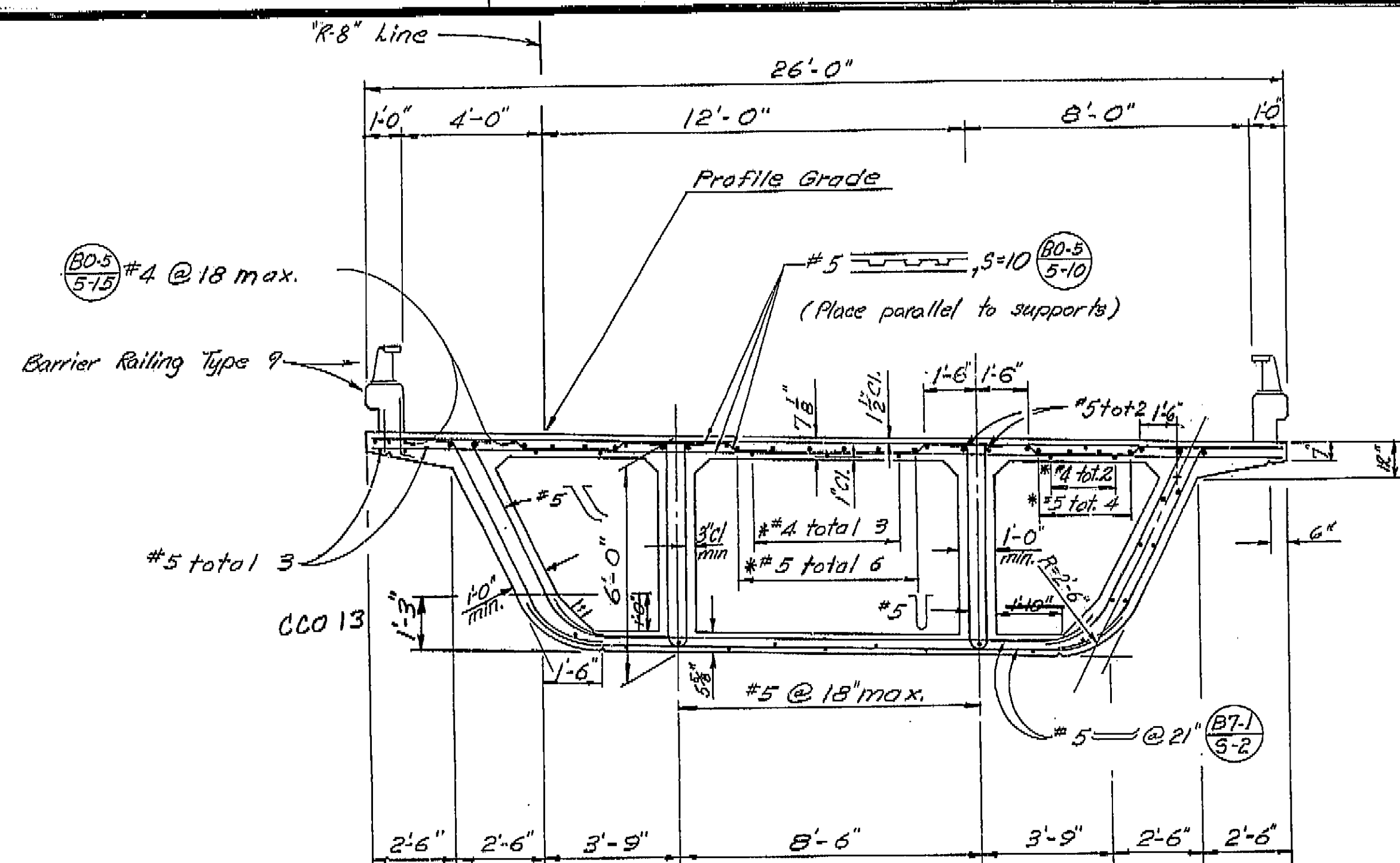
AS BUILT
Corrections by RAJ
Date: 1-23-75

VAN NESS AVENUE UNDERCROSSING
TYPICAL SECTION & GIRDER LAYOUT
SUPPLEMENTAL SHEET

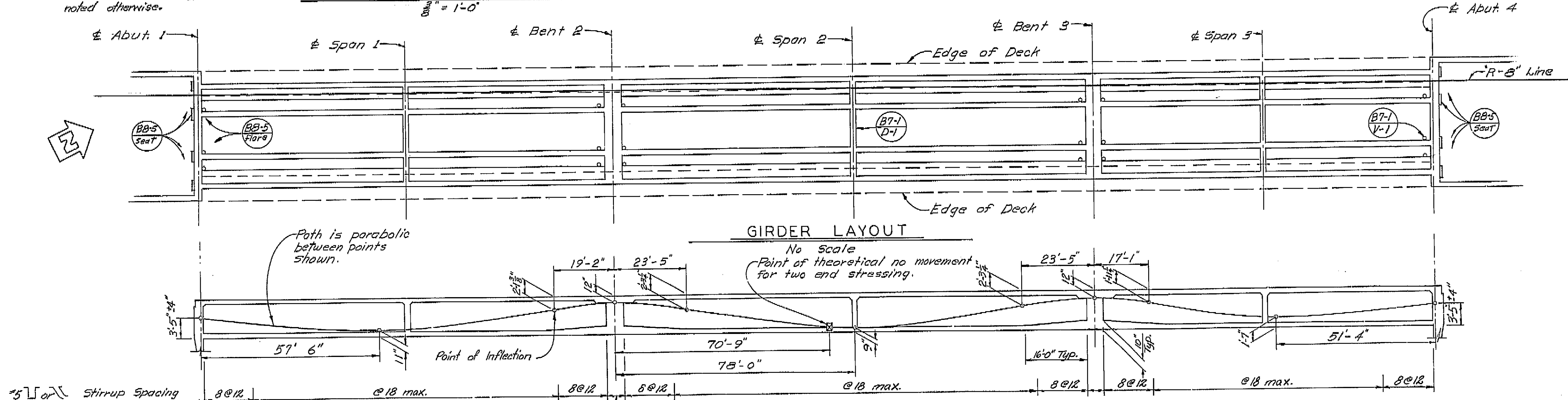
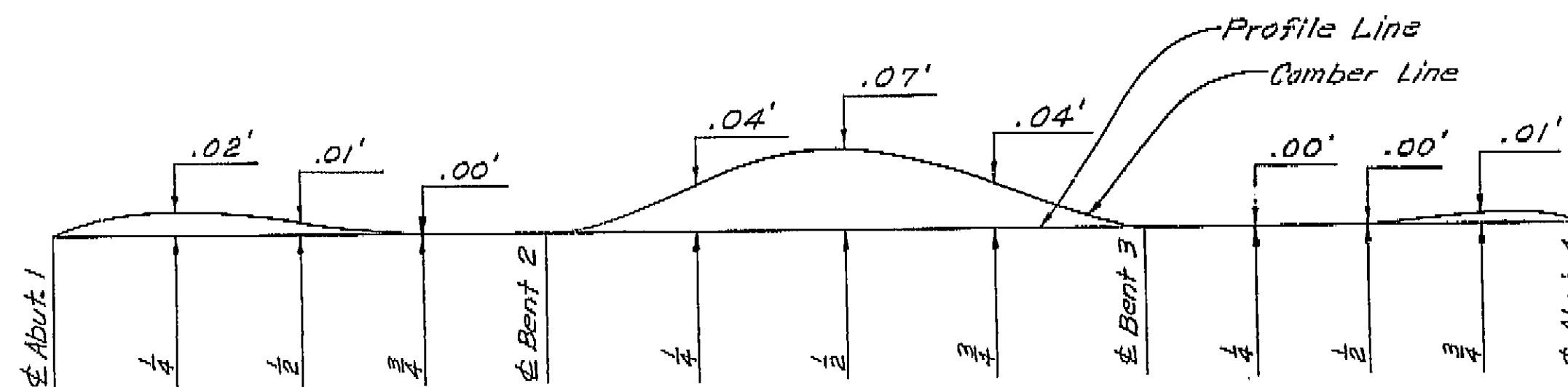
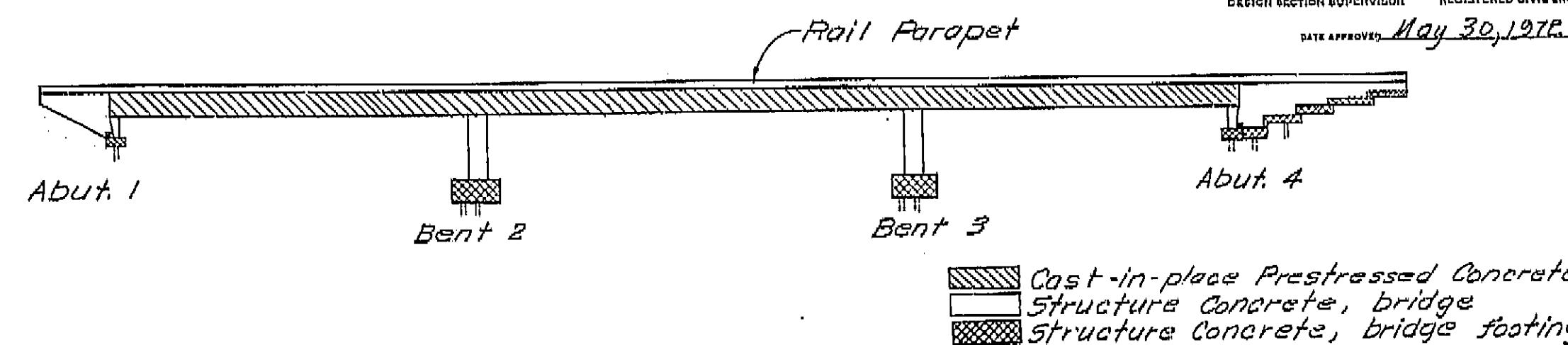
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE: 6/24/75 BY: Dech Meadows TITLE: Manager

DIST.	COUNTY	ROUTE	POST MILES - TOTAL PROJECT	SHEET	NO.
06	Fra	41	R22.5/R23.8	103	235

R. C. Blake
 DESIGN SECTION SUPERVISOR
 REGISTERED CIVIL ENGINEER NO. 6052
 DATE APPROVED: May 30, 1972



Note:
 * Stop at face of support
 Details shown are typical unless noted otherwise.



AS BUILT PLANS
 Contract No. 06-025614
 Date Completed 9-3-74
 Document No. 60006555

AS BUILT
 CORRECTIONS BY C. Pearson
 CONTRACT NO. 06-025614
 DATE 1-15-75

BRIDGE DEPARTMENT DESIGN SECTION 15		STATE OF CALIFORNIA TRANSPORTATION AGENCY DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
Project Engineer	<i>W. J. Abbey</i>	VAN NESS AVENUE UNDERCROSSING	
Design	by <i>W. J. Abbey</i> 11/71 checked <i>E. N. Brunberg</i> 11-71	TYPICAL SECTION & GIRDER LAYOUT	
Details	by <i>E. N. Brunberg</i> 11-71 checked <i>E. N. Brunberg</i> 11-71	BRIDGE NO.	42-2270R
Quantities	by <i>E. N. Brunberg</i> 1-72 checked <i>A. Hanson</i> 1-72	POST MILE	22.7
		DRAWING NO.	6
		SHEET	9

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/24/75 BY *W. J. Abbey* TITLE *Major Supervisor*